

Name: _____

Date: _____

Quiz name: **periodic table**

1. An element has the electronic structure 2,8,4. Which group is it in?

- ☐ A 2
- ☐ B 3
- ☐ C 4
- ☐ D 8

2. What do the elements in a period have the same number of?

- ☐ A electrons
- ☐ B protons
- ☐ C occupied energy levels or shells
- ☐ D electrons in the highest occupied energy level or outer shell

3. When an element from group 1 reacts with water

- ☐ A A metal hydroxide is only formed
- ☐ B A metal hydroxide and carbon dioxide are formed
- ☐ C A metal hydroxide and hydrogen are formed
- ☐ D A metal hydroxide and oxygen are formed

4. Which statement is TRUE about the modern PERIODIC TABLE?

- ☐ A most elements are non-metals
- ☐ B elements in the same group have an increasing number of electrons in the outer shell with increase in atomic number down the group
- ☐ C from left to right, elements in the same period, use an increasing number of electron shells (energy levels)
- ☐ D the elements are laid out in order of atomic number

5. Alkali metals are stored under oil because they are magnetic

- ☐ A True
- ☐ B False

6. When sodium reacts with water, two things you would see are

- ☐ A sodium floats and fizzes
- ☐ B sodium sinks and fizzes
- ☐ C sodium sinks and the water turns red
- ☐ D sodium sinks and the water turns yellow

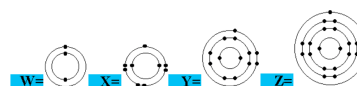
7. The 'Alkali Metals' are all in the same Group of the Periodic Table because

- ☐ A they have one electron in the outer shell
- ☐ B they have the same number of shells
- ☐ C they are soft solids

- ☒ D they react readily with water

8. Which of the above electron arrangements corresponds to a non-metallic element?

- | | |
|---|---|
| A | W |
| B | X |
| C | Y |
| D | Z |



9. Which of the elements shown are in the same period?

- ☐ A Q and R
☐ B M and X
☐ C R and A
☐ D G and M

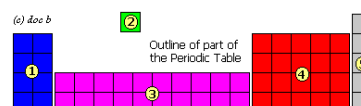
J part of the **THE PERIODIC TABLE OF THE ELEMENTS**

| | | | |
|---|---|---|---|
| R | G | M | Z |
| Q | E | X | V |
| A | L | D | Y |

the letters are NOT the actual
chemical symbols of the elements

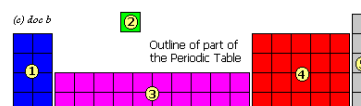
10. The diagram shows an outline of parts of the Periodic Table. In which section will you find the Transition Metals?

- | | |
|---|---|
| A | 1 |
| B | 2 |
| C | 3 |
| D | 4 |
| E | 5 |



11. Where in the Periodic Table are you MOST LIKELY to find an element that forms a variety of coloured compounds?

- | | |
|---|---|
| A | 1 |
| B | 2 |
| C | 3 |
| D | 4 |
| E | 5 |



12. Where in the Periodic Table are you MOST LIKELY to find an element that exists as X_2 (diatomic) molecules?

- ☐ A Group 0
- ☐ B Group 1
- ☐ C Group 7
- ☐ D Transition metals

[illegible]